

Applicant(s): Kornelia Polyak et al.
M-1, A TUMOR SUPPRESSOR GENE

ATGAAGCTCGCCGCCCTCCTGGGGCTCTGCGTGGCCCTGTCCTGCAGCTCCGC
TCGTGCTTTCTTAGTGGGCTCGGCCAAGCCTGTGGCCCAGCCTGTCGCTGCGC
TGGAGTCGGCGGCGGAGGCCGGGGCCGGGACCCTGGCCAACCCCTCGGCA
CCCTCAACCCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCA
CCTCATAGAGGGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCCAGGCCGTG
GGGGCCGTGAAGGCCCTGAAGGCCCTGCTGGGGGCCCTGACAGTGTGTTGGC

FIG. 1A

CGTGCTTTCTTAGTGGGCTCGGCCAAGCCTGTGGCCCAGCCTGTCGCTGCGCT
GGAGTCGGCGGCGGAGGCCGGGGCCGGGACCCTGGCCAACCCCTCGGCAC
CCTCAACCCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCAC
CTCATAGAGGGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCCAGGCCGTG
GGGCCGTGAAGGCCCTGAAGGCCCTGCTGGGGGCCCTGACAGTGTGTTGGC

FIG. 1B

TTCTTAGTGGGCTCGGCCAAGCCTGTGGCCCAGCCTGTCGCTGCGCTGGAGTC
GGCGGCGGAGGCCGGGGCCGGGACCCTGGCCAACCCCTCGGCACCCTCAAC
CCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCACCTCATAG
AGGGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCCAGGCCGTGGGGGCCGT
GAAGGCCCTGAAGGCCCTGCTGGGGGCCCTGACAGTGTGTTGGC

FIG. 1C

MKLAALLGLCVLSCSSARAFLVGSAPVAQPVAALESAAEAGAGTLANPLGTL
NPLKLLSSLGIPVNHLEGSQKCVaelGPQAVGAVKALKALLGALTVFG

FIG. 2A

RAFLVGSAPVAQPVAALESAAEAGAGTLANPLGTLNPLKLLSSLGIPVNHLE
GSQKCVaelGPQAVGAVKALKALLGALTVFG

FIG. 2B

FLVGSAPVAQPVAALESAAEAGAGTLANPLGTLNPLKLLSSLGIPVNHLEGS
QKCVaelGPQAVGAVKALKALLGALTVFG

FIG. 2C

ATGAAGCTTACCACCACCTTTCTAGTGCTCTGTGTGGCTCTGCTCAGTGACTC
TGGTGTGCTTTCTTCATGGACTCATTGGCCAAGCCTGCGGTAGAACCCGTGG
CCGCCCTTGCTCCAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACC
ATTAAGCCACTTGGCCATCCTGAGGTTTCATCCTGGCCAGCATGGGCATCCCAT
TGGATCCTCTCATAGAGGGATCCAGGAAGTGTGTCACCGAGCTGGGCCCTGA
GGCTGTAGGAGCTGTGAAGTCACTGCTGGGGGTCCTGACAATGTTCCGT

FIG. 3A

GTTGCTTTCTTCATGGACTCATTGGCCAAGCCTGCGGTAGAACCCGTGGCCGC
CCTTGCTCCAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACCATTA
AGCCACTTGGCCATCCTGAGGTTTCATCCTGGCCAGCATGGGCATCCCATTGG
ATCCTCTCATAGAGGGATCCAGGAAGTGTGTCACCGAGCTGGGCCCTGAGGC
TGTAGGAGCTGTGAAGTCACTGCTGGGGGTCCTGACAATGTTCCGT

FIG. 3B

TTCTTCATGGACTCATTGGCCAAGCCTGCGGTAGAACCCGTGGCCGCCCTTGC
TCCAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACCATTAAGCCAC
TTGGCCATCCTGAGGTTTCATCCTGGCCAGCATGGGCATCCCATTGGATCCTCT
CATAGAGGGATCCAGGAAGTGTGTCACCGAGCTGGGCCCTGAGGCTGTAGGA
GCTGTGAAGTCACTGCTGGGGGTCCTGACAATGTTCCGT

FIG. 3C

MKLTTTFLVLCVALLSDSGVAFFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPL
SHLAILRFILASMGIPLDPLIEGSRKCVTELGPVAVGAVKSLLGVLTMTFG

FIG. 4A

VAFFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPLSHLAILRFILASMGIPLDPLI
EGSRKCVTELGPVAVGAVKSLLGVLTMTFG

FIG. 4B

FFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPLSHLAILRFILASMGIPLDPLIEG
SRKCVTELGPVAVGAVKSLLGVLTMTFG

FIG. 4C

Appln No.: 10/081,817
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 A TUMOR SUPPRESSOR GENE

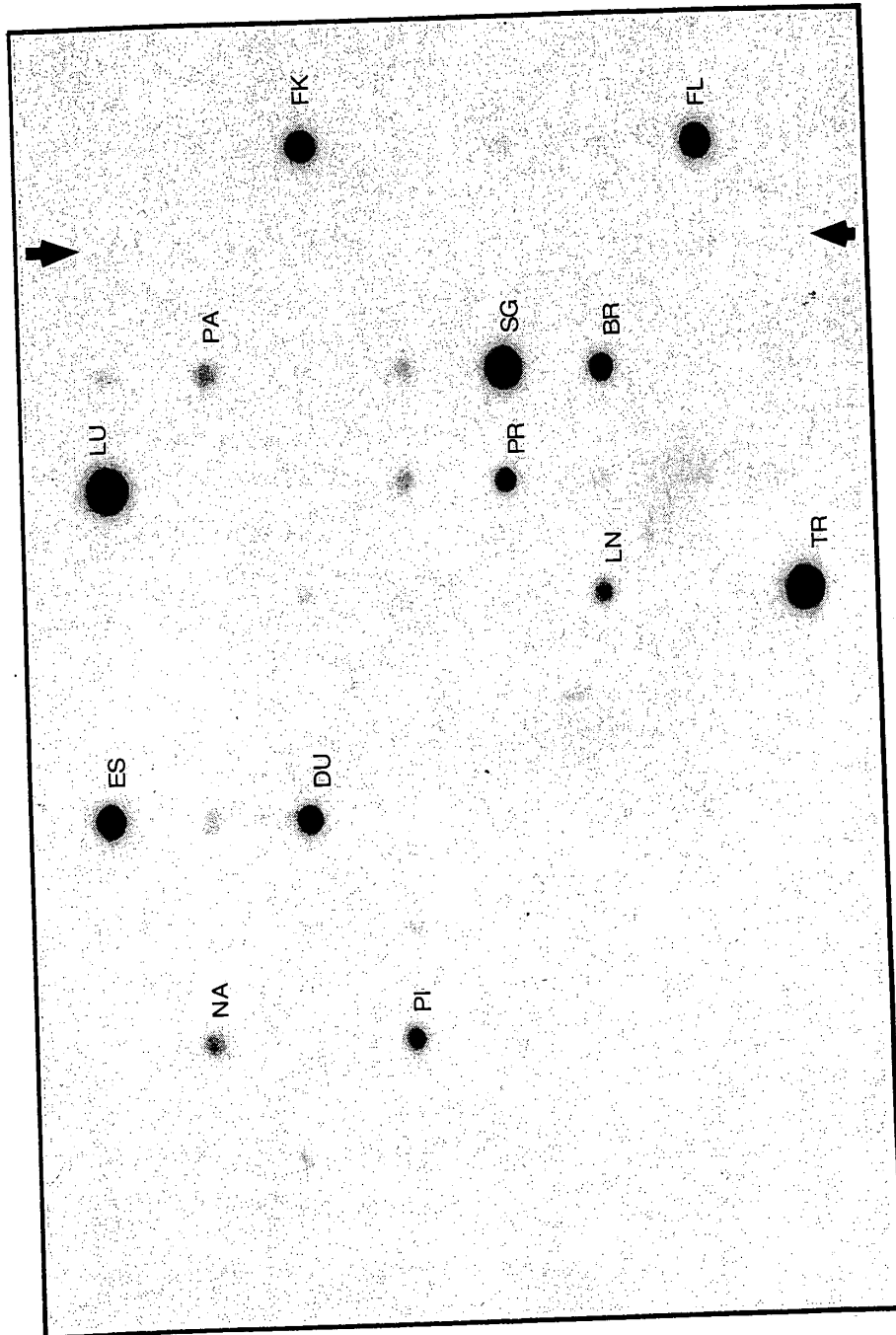


FIG. 5A

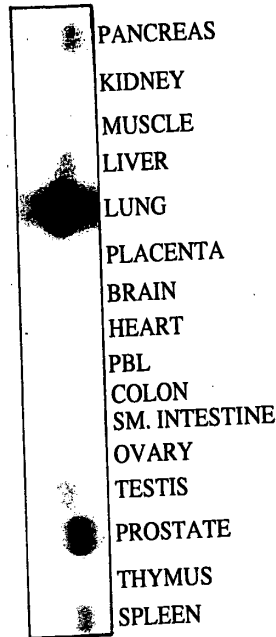


FIG. 5B

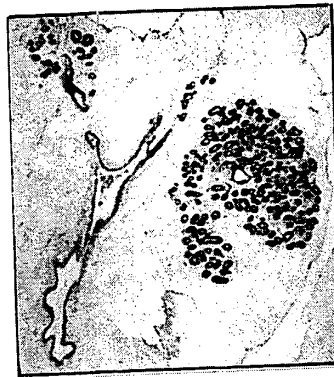


FIG. 5C



FIG. 5D



FIG. 5E

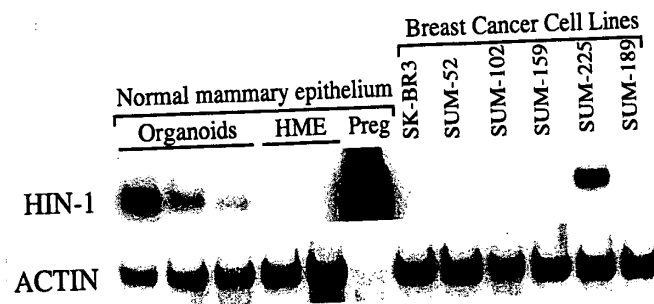
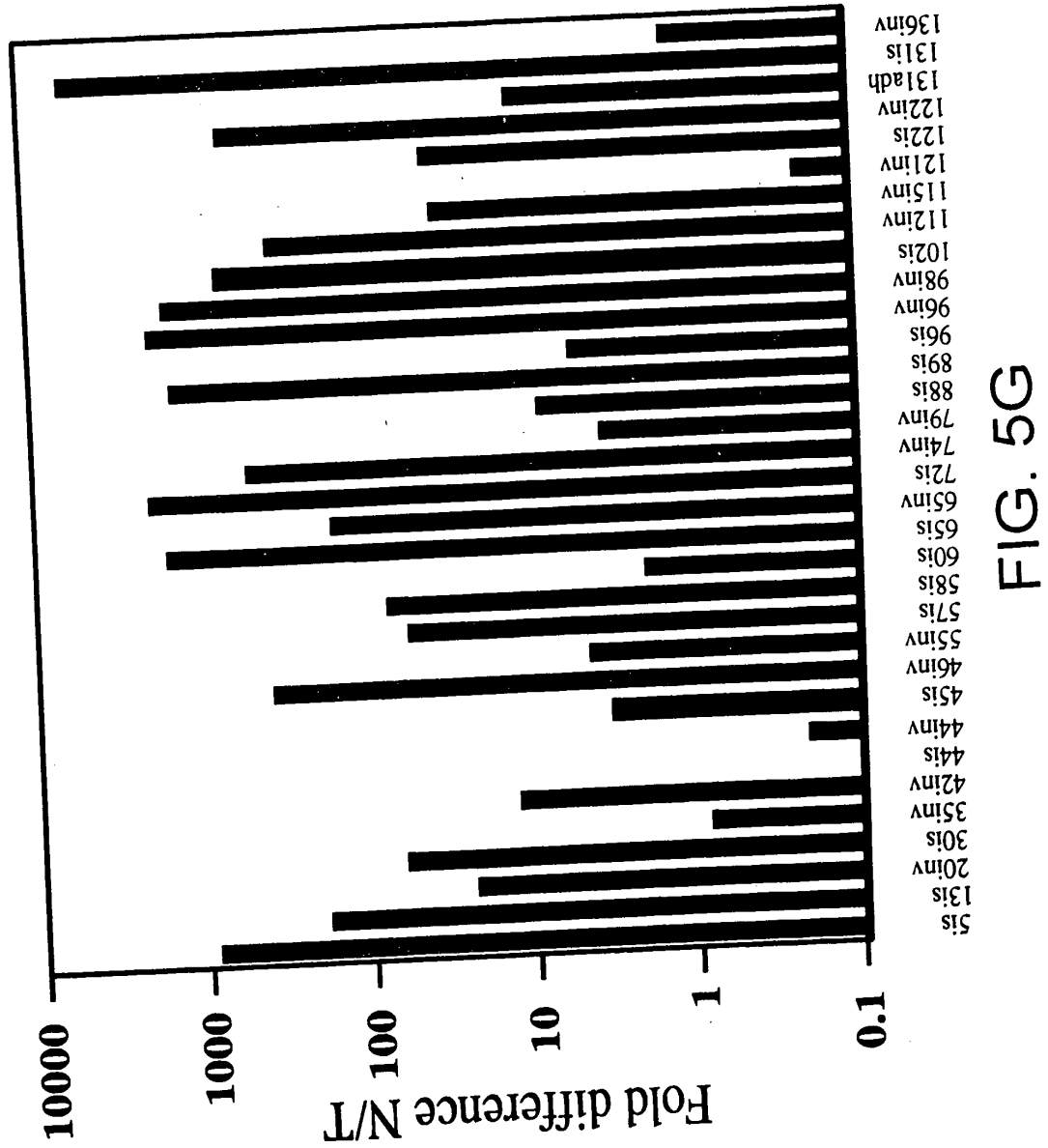


FIG. 5F

Appln No.: 10/081,817
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HUMAN TUMOR SUPPRESSOR GENE



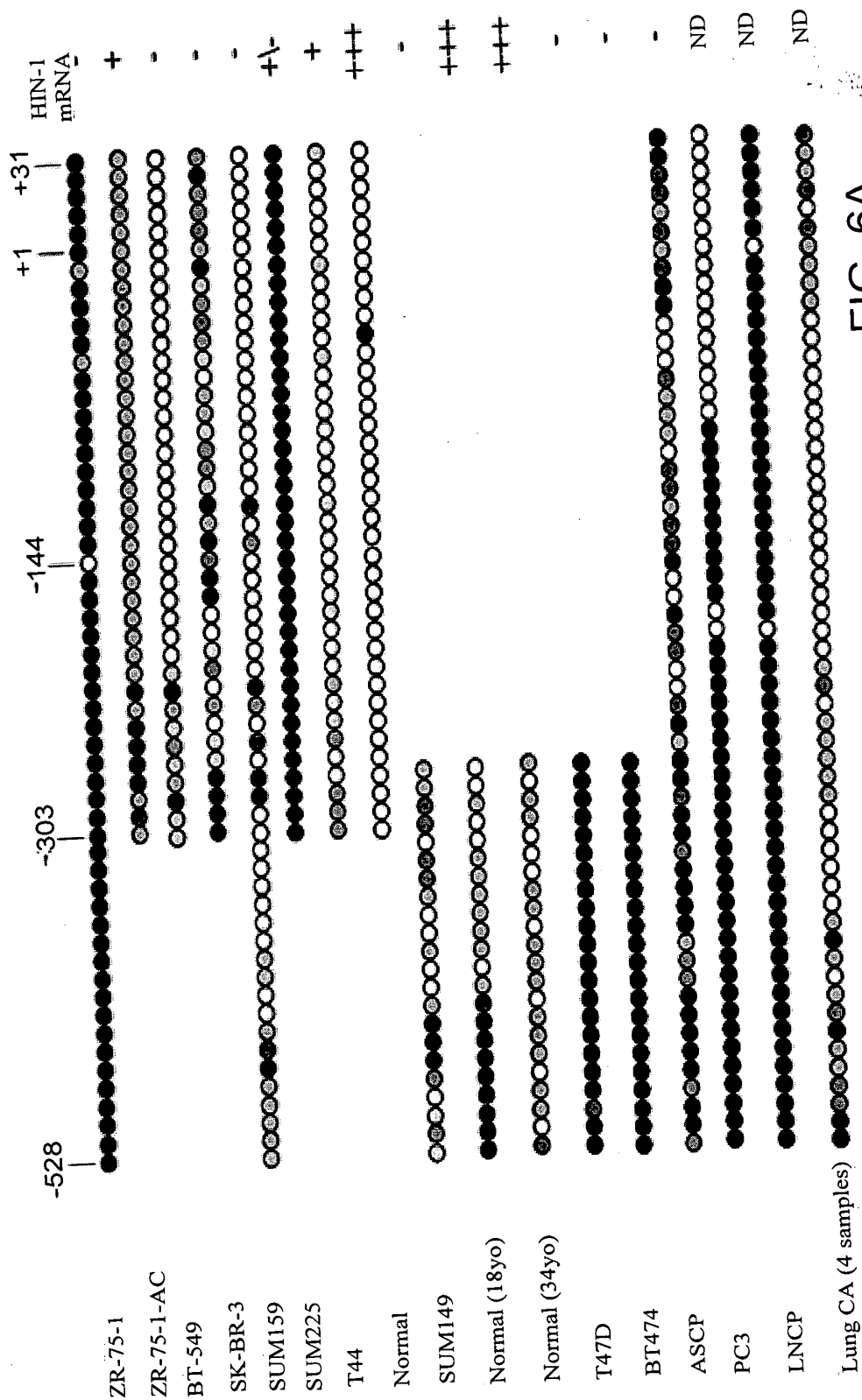
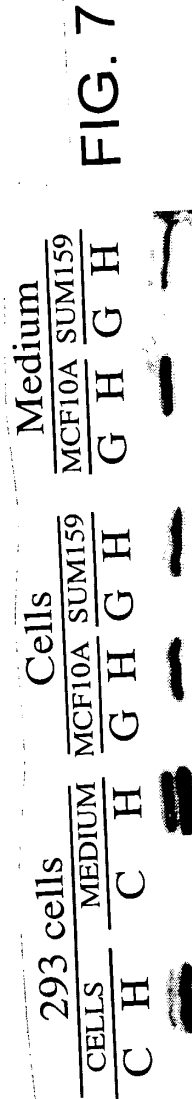
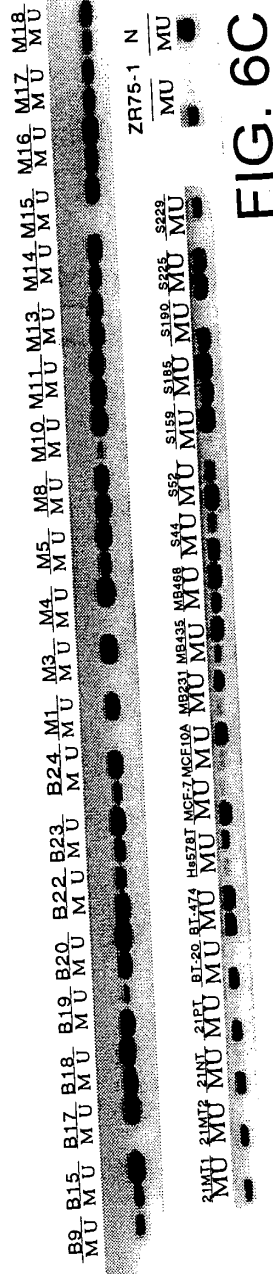
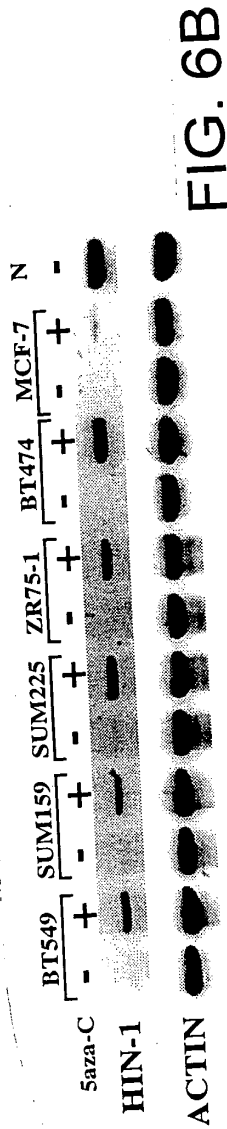


FIG. 6A

Appln No.: 10/081,817
Applicant(s): Kornelia Polyak et al.
HUMAN TUMOR SUPPRESSOR GENE



CGGCCGGGGAGGCGGCCGGGAGTGAGGCCTGATCGTCCCTGGCGCCTCCACC
TCCCCAGGCGCAGAAGGCGCCACGAGGACCCCAAGTGCCCGACGTTGCCAC
GGTCTGGGATCAGAGGCAGGGACAGGGAGCCAGGAAGTGCGCCGCCCG
CCCCTGCCCTGGCGCGAGGGAACTCCCTCACCNGAGGGAAGCTCCCCTCAC
CCGGCCAGCCCTGCAGGGGGGCGCGTGGGGTCAGACCGCAAAGCGAAGGT
GCGGGCCGGGTGGGCCTCGCGGAGACAAAGGCCGGGCCTGCCTCTCTCAGA
GGGCCCCAGCGCCTGCCAAGAGGAAGTCCTCGAGGCCCGGGCAGGGAAGGG
GGCACGGGCTTCCCAGGGCCCCGCCGGCCGAGCAGGAAGTTGGCCAGGGCA
CGGCCGTGAGCGGAGCGGGCAGGGCTTTCTCAGGAGCGCGGGCGAGGCCGG
CGCTGGAGGGGCGAGGACCGGGTATAAGAAGCCTCGTGGCCTTGCCCGGGC
AGCCGCAGGTTCCCCGCGCGCCCCGAGCCCCCGCGCC

FIG. 8

GTTCTCTGTTTTGTGTTGGTAGGCGTTGCTTTCTTGGTGGATTCACTGGCCAAG
CCTGTGGTAGAACCCGTGGCTGCCATTGCTACAGCTGCAGAGGCTGTGGCAG
GGGCTGTGCCTAGCCTACCATTAAAGCCACTTGGCCATCCTGAGGTTTCATCGTG
ACCAGCCTGGGCATCCCATTGGATCCTCTCATAGATGGTTCCAGGAAGTGCGT
CACCGAGCTGGGCCCTGAGGCTGTAGGAGCTGTGAAGTCACTGCTGGGGGCC
CTGACAACGTTCCGT

FIG. 9A

VLCFVLVGVAFLVDSLAKPVVEPVAAIATAAEAVAGAVPSLPLSHLAILRFIVTSL
GIPLDPLIDGSRKCVTELGPVAVKSLLGALTTFG

FIG. 9B

TTCTTGGTGGATTCACTGGCCAAGCCTGTGGTAGAACCCGTGGCTGCCATTGC
TACAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACCATTAAAGCCAC
TTGGCCATCCTGAGGTTTCATCGTGACCAGCCTGGGCATCCCATTGGATCCTCT
CATAGATGGTTCCAGGAAGTGCGTCACCGAGCTGGGCCCTGAGGCTGTAGGA
GCTGTGAAGTCACTGCTGGGGGCCCTGACAACGTTCCGT

FIG. 9C

FLVDSLAKPVVEPVAAIATAAEAVAGAVPSLPLSHLAILRFIVTSLGIPLDPLIDGS
RKCVTELGPVAVKSLLGALTTFG

FIG. 9D

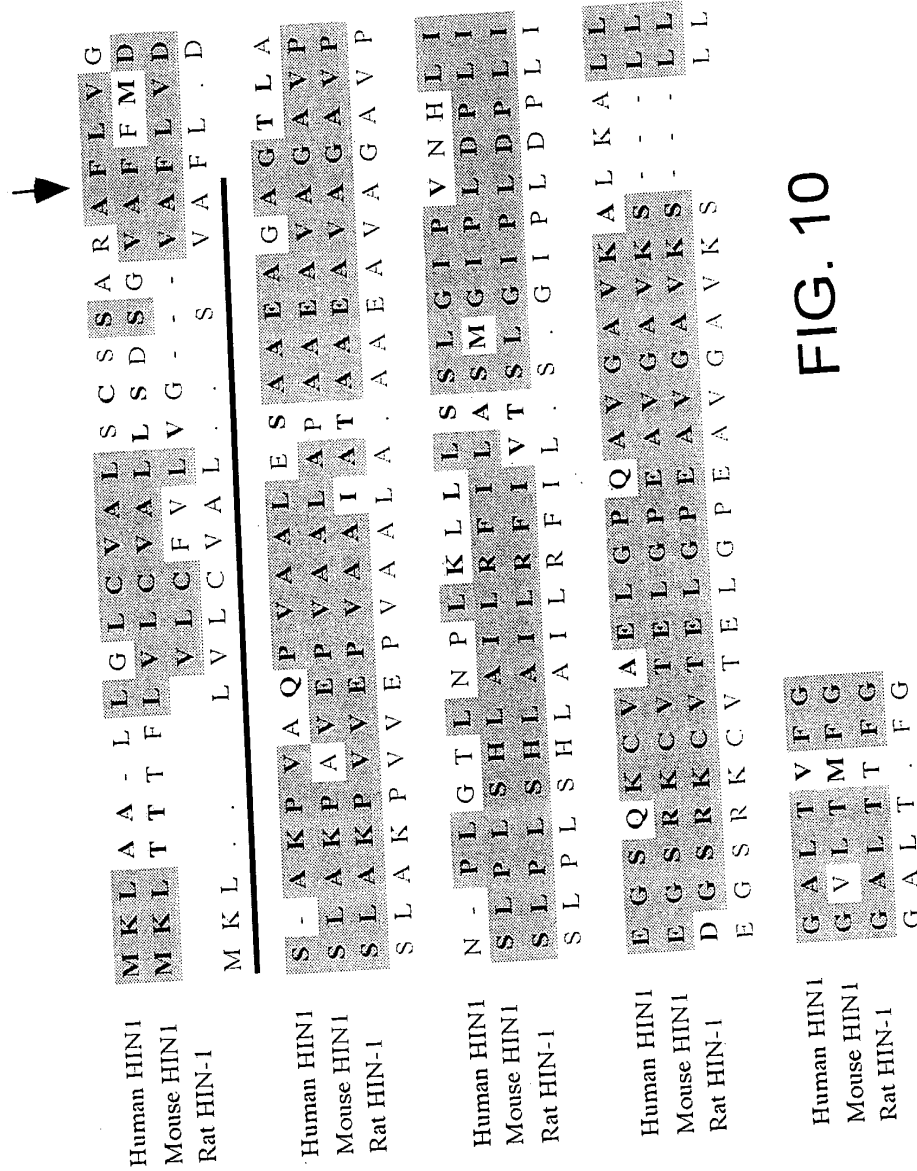


FIG. 10

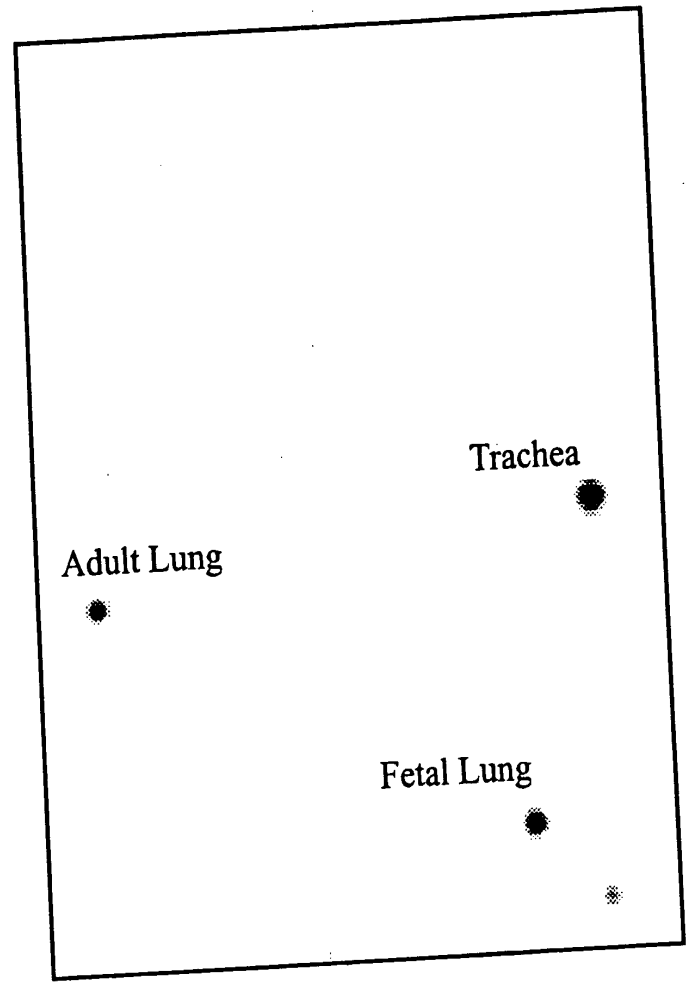


FIG. 11A

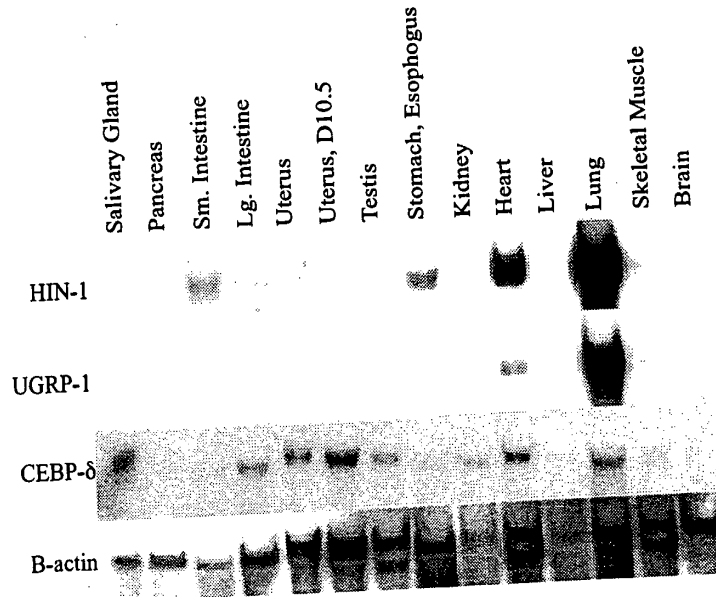


FIG. 11B

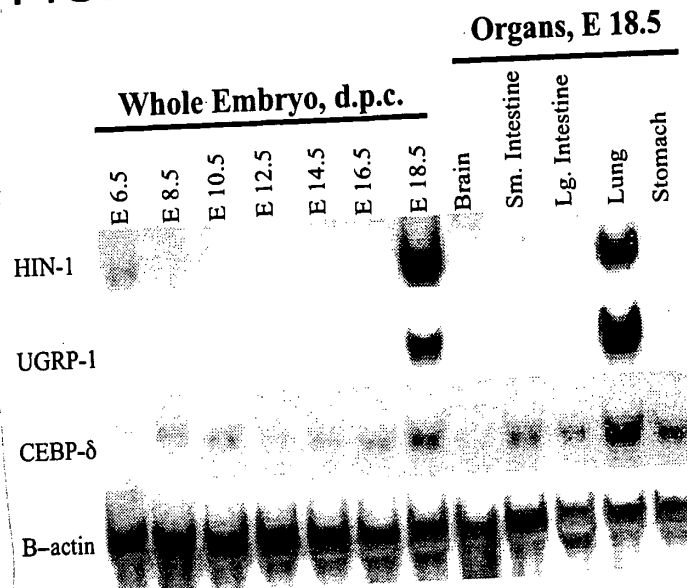


FIG. 11C

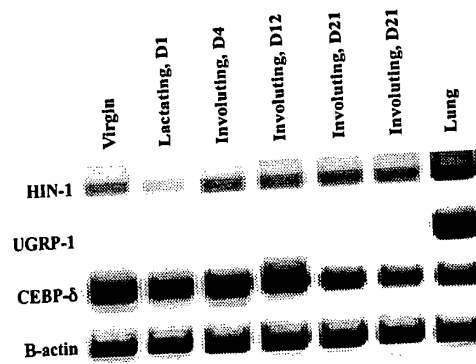


FIG. 11D

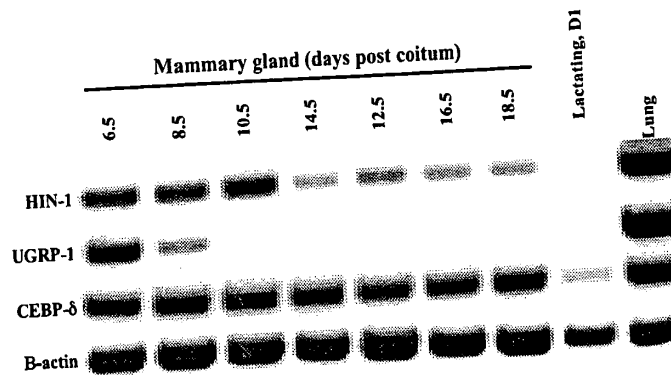
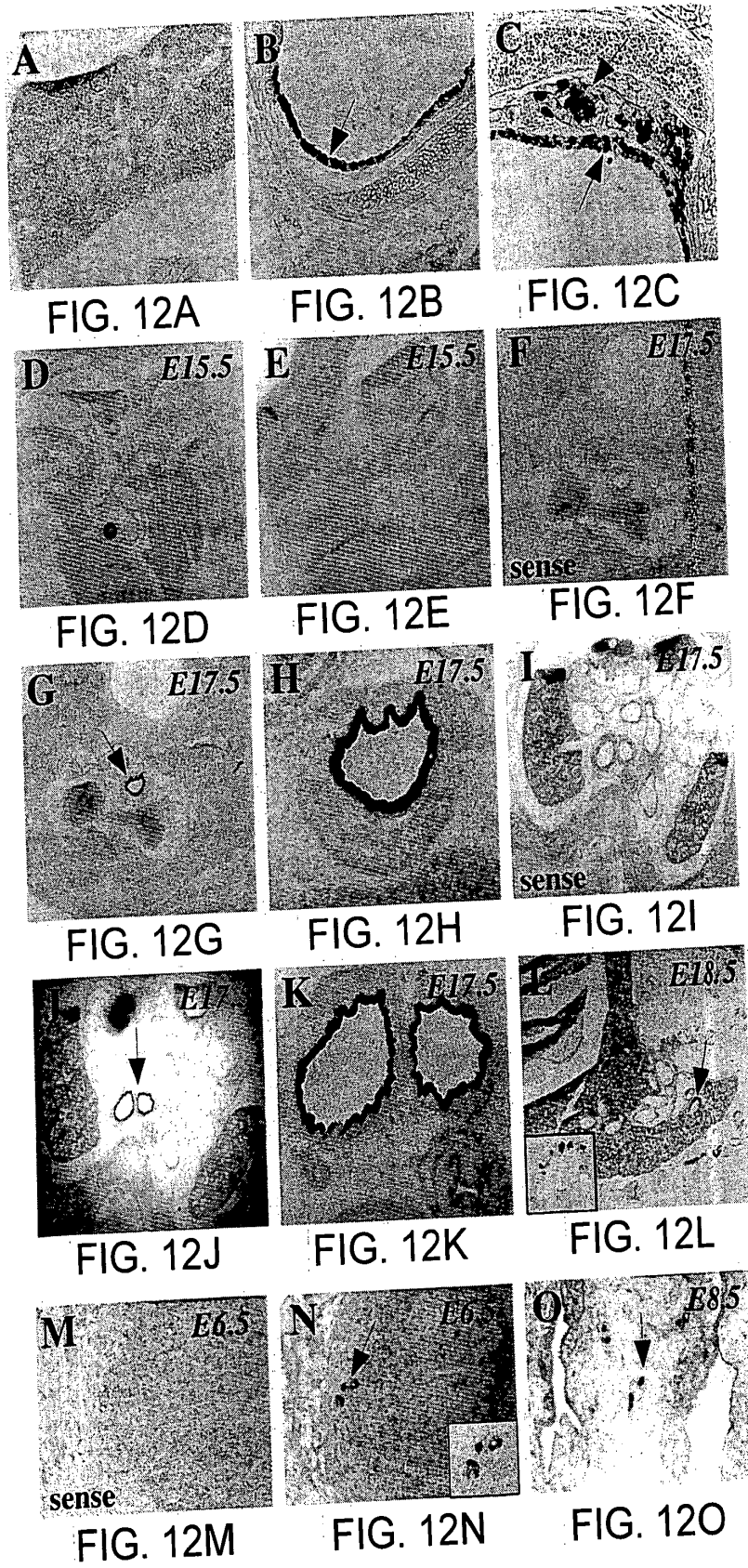


FIG. 11E



Appln No.: 10/081,817
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 1, A TUMOR SUPPRESSOR GENE

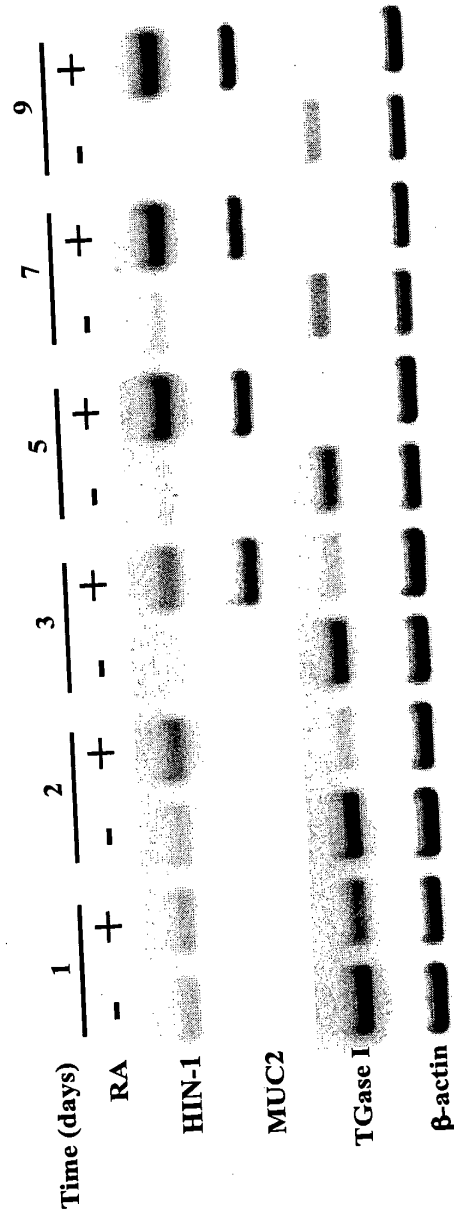


FIG. 13

Appln No.: 10/081,817

Applicant(s): Kornelia Polyak et al.

HIN-1, A TUMOR SUPPRESSOR GENE

Human UGRP-1
Human HIN-1
Drosophila CG13
Drosophila CG13

Human UGRP-1
Human HIN-1
Drosophila CG13
Drosophila CG13

Human UGRP-1
Human HIN-1
Drosophila CG13068
Drosophila CG13674

FIG. 14A

FIG. 14A

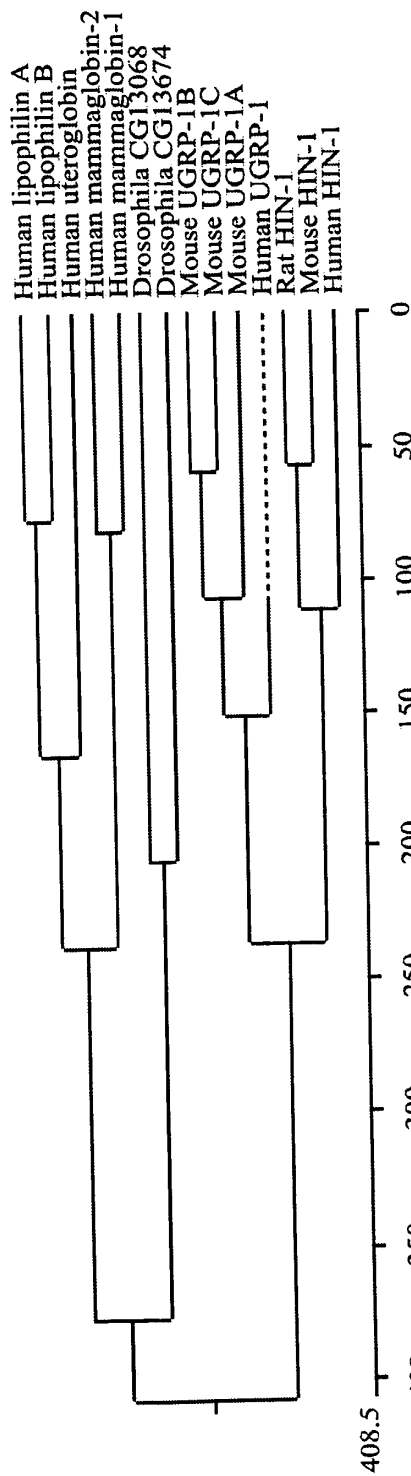


FIG. 14B

ATGTTCAAGCTGTCTGCCCTCGTTGTCCTGTGCGCTCTGGTGGCCTGCTCCTCG
GCTGAGCCCAAGCCCGCTATCCTGGCCGCCGCTCCAGTGGTTGCAGCTGCTCC
TGCCGGCGTGGTCACCGCTACCAAGTTCGCAGTACGTGGCCCGCAACTTCAAC
GGTGTGGCTGCTGCTCCAGTTGTTGCCGCTGCCTACACCGCTCCAGTTGCCG
CGCTGCCTATACCGCTCCAGTTGCCGCCGCTGCTTATACCGCTCCAGTTGCCG
CTGCCTACTCTGCTTATCCGTATGCCGCCTACCCTTACAGCGCTGCATACACC
ACTGTTTTG

FIG. 15

ATGAAATTCCTCGCCGTCTGCTTCTTCGCTGTTGTGGCTGTGGCTGCTGCCAA
ACCCGGTATTGTGGCTCCTCTGGCCTACACCGCTCCGGCTGTGGTGGGCAGTG
CCGCCTACGTGGCTCCCTACGCCTCCAGCTACACCGCCAACTCGGTGGCCAC
AGCGCCGCCTTCCCAGCTGCCTACACCGCCGCCTACACTGCTCCCGTTGCTGC
TGCCTATACCGCTCCAGTGGCTGCTGCTTATACCGCTCCAGTGGCCGCTGCGT
ACGCCGCCCCAGCTGCCTATACCGCTGCCTACACCGCCCCATTGCCCGTTAT
GCCGCCACCCCTTCGCAGACCCATCGCCGCTCCCGTGGCTGCCGCCTACAC
CGCCCCCATCGCCGCCGCTGCCCCAGTTCTGCTGAAGAAG

FIG. 16